



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops	Character of Storm
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### ILLINOIS, Northwest

#### Stephenson County

4 E Freeport      01      1820CST                0      0           Hail (0.75)

#### Stephenson County

2 E Freeport      01      1830CST                0      0      2K      Thunderstorm Wind

#### Stephenson County

3 E Winslow      01      1830CST                0      0           Hail (1.50)

#### Stephenson County

4 S Rock City      01      1850CST                0      0      1K      Thunderstorm Wind

A line of strong to severe thunderstorms developed ahead of a cold front. The line of storms swept across Northwest Illinois during the evening. Moderate instability and shear translated to a few storms producing large hail and damaging wind. Stephenson County was hit particularly hard. Hail up to walnut size fell east of Winslow, while strong winds downed trees and limbs near Freeport and Rock City.

ILZ001-007-009-015-  
024>025-034

#### Jo Daviess - Carroll - Whiteside - Rock Island - Mercer - Henderson - Hancock

02      0830CST                0      0           Flood  
28      0730CST

June 2000 will be remembered as an unusually wet month with moderate to major flooding on the Pecatonica and Rock Rivers. Much of Northwest Illinois averaged 2 to 4 inches above normal on rainfall.

On June 2 the Pecatonica River was the first river to rise above flood stage, and brought moderate flooding to Freeport. Crests recorded at Freeport were 15.55 feet (on the 5th) and 13.78 feet (on the 14th). It was estimated that 250 homes were affected by the flooding.

A series of heavy rain events within the first few weeks of the month, turned minor and moderate flooding to major and record flooding on the Rock River in Northwest Illinois. An earthen levee break near Erie Wednesday Evening June 14th resulted in sandbagging activities. Some evacuations occurred along the river, especially in the Illinois Quad City area. Crests recorded at Joslin were 14.51 feet (on the 7th), 18.55 feet (on the 16th) and 14.12 feet (on the 26th). Crests recorded at Moline were 12.64 feet (on the 7th), 15.01 feet (on the 17th) and 12.75 feet (on the 27th). Governor George Ryan declared Rock Island and Whiteside Counties state disaster areas because of the flooding along the Rock River. Several residents of more than 17 years classified the flood as one of the worst.

#### Jo Daviess County

Woodbine      13      0520CST                0      0           Urban/Sml Stream Fld

#### Stephenson County

Freeport      13      0525CST                0      0           Urban/Sml Stream Fld

#### Carroll County

Savanna      13      0650CST                0      0           Urban/Sml Stream Fld

Scattered thunderstorms developed late Monday evening over Central Iowa from Marshalltown to Waterloo and Mason City. These storms moved across Northeast Iowa overnight into Northwest Illinois early Tuesday morning. Although not severe, these storms produced heavy rain with several locations receiving over an inch. The heavy rain fell on already saturated ground, and resulted in some flooding. In Jo Daviess County, water up to a foot deep covered Highway 20 between Woodbine and Elizabeth. Highway 20 was also closed in spots in Stephenson County due to standing water. Route 26 at Montague Road was closed, while standing water was also reported on roads between Yellow Creek and Hollywood. In Carroll County, several roads were also covered in water in Savanna.



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### ILLINOIS, Northwest

<b>Mercer County</b>									
<b>Aledo</b>	13	1520CST			0	0	1K		Thunderstorm Wind
<b>Rock Island County</b>									
<b>Port Byron</b>	13	1525CST			0	0	1K		Thunderstorm Wind
<b>Mercer County</b>									
<b>Sherrard</b>	13	1535CST			0	0			Hail (0.75)
<b>Carroll County</b>									
<b>Countywide</b>	13	1604CST			0	0			Urban/Sml Stream Fld
<b>Whiteside County</b>									
<b>2 SW Erie</b>	13	1610CST			0	0	2K		Thunderstorm Wind
<b>Whiteside County</b>									
<b>1 SW Lyndon</b>	13	1620CST			0	0	1K		Thunderstorm Wind

The earlier round of thunderstorms had weakened and shifted east of the area. Other strong to severe thunderstorms erupted during the afternoon over Southeast Iowa, Northeast Missouri and West Central Illinois as a Mesoscale Convectively induced Vorticity Maxima, from earlier thunderstorms in the plains, tracked eastward. Heavy rain, falling on already saturated ground, resulted in urban and small stream flooding in a few areas. Severe winds toppled power poles, lines and several trees over portions of Whiteside County. Trees were also toppled in Rock Island and Mercer Counties.

<b>Hancock County</b>									
<b>Countywide</b>	13	2225CST			0	0	5K		Thunderstorm Wind

Power lines and trees downed throughout the county.

event 3

<b>Henry County</b>									
<b>Countywide</b>	23	1500CST			0	0	5K		Thunderstorm Wind
<b>Henry County</b>									
<b>Opheim</b>	23	1503CST			0	0	1K		Thunderstorm Wind

Morning upper air analysis showed a low level thermal gradient from Eastern Minnesota through Eastern Iowa into Western Illinois. A southerly low level jet of 25 to 30 knots interacted with the boundary to trigger strong to severe thunderstorms over Northeast Iowa during the late morning. Thunderstorms continued to develop throughout the afternoon, organizing into a bow echo along the Mississippi River, and racing across West Central Illinois during the late afternoon and evening. Many reports of 40 to 50 mph winds and small hail were received. Strong winds downed trees and power lines in Henry County in Cambridge, Andover, Geneseo and Opheim.

<b>Rock Island County</b>									
<b>2 SW Illinois City</b>	24	1000CST			0	0			Urban/Sml Stream Fld

Rainfall during the morning accumulated to 3.9 inches, resulting in standing water on many roads.

<b>Mcdonough County</b>									
<b>Colmar</b>	26	0010CST			0	0			Urban/Sml Stream Fld

Heavy rain resulted in minor flooding of several city streets.

<b>Hancock County</b>									
<b>Carthage</b>	26	0045CST			0	0			Urban/Sml Stream Fld

Water covered portions of Highway 136.



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### IOWA, East Central and Southeast

**IAZ040>042-052>054-063>068-078-089-098>099 Buchanan - Delaware - Dubuque - Linn - Jones - Jackson - Iowa - Johnson - Cedar - Clinton - Muscatine - Scott - Louisa - Des Moines - Van Buren - Lee**

01	0730CST			0	0				Flood
30	0830CST								

June 2000 will be remembered as an unusually wet month with flooding on several rivers and tributaries. Much of Eastern Iowa averaged 2 to 4 inches above normal on rainfall.

On June 1 the Wapsipinicon River was the first river to rise above flood stage, and brought moderate flooding to DeWitt. Crests recorded at DeWitt were 10.46 feet (on the 2nd), 10.92 feet (on the 8th) and 12.36 feet on July 7th. Other rivers, including the Rock and Cedar, quickly followed. These rises occurred in response to heavy rain falling during late May. Additional rain around June 10 resulted in additional rises in mid June, including the Mississippi, Cedar, Iowa, and Wapsipinicon. More heavy rain in mid to late June resulted in more rises, including the Cedar, Des Moines, Iowa, Mississippi, North Skunk, and Skunk.

Moderate flooding occurred on the Cedar River at Conesville. Crests recorded at Conesville were 12.28 feet (on the 8th), 13.32 feet (on the 15th) and 13.71 feet (on the 22nd).

Minor flooding occurred on the Mississippi River in response to the heavy rains and water from upstream. In the Quad Cities L/D 15, Illinois City L/D 16, Muscatine, New Boston L/D 17, Keithsburg, Oquawka, and Gladstone L/D 18 only minor impacts occurred. In Burlington and Keokuk, the industrial sections were protected by levees, and only minor impacts occurred with water encroaching into some parks and parking lots. The Mississippi River remained above flood stage at some points through the end of the month

Minor flooding also occurred on the Iowa River at Wapello. Crests recorded at Wapello were 20.31 feet (on the 16th) and 20.28 feet (on the 24th). Flooding of low-lying agricultural lands near the river occurred

Linn County 4 N Palo	01	1537CST			0	0			Hail (1.00)
Linn County (Cid)Cedar Rapids Ar	01	1620CST			0	0			Thunderstorm Wind (G60) <sup>M</sup>
Dubuque County Farley	01	1629CST			0	0			Thunderstorm Wind (G58)
Dubuque County Bankston	01	1635CST			0	0	10K		Thunderstorm Wind
Dubuque County Sherrill	01	1645CST			0	0			Hail (0.75)
Linn County Cedar Rapids	01	1645CST			0	0			Urban/Sml Stream Fld
Linn County Mt Vernon	01	1645CST			0	0	2K		Thunderstorm Wind
Louisa County 4 E Wapello	01	1848CST			0	0	15K		Thunderstorm Wind

A line of strong to severe thunderstorms developed ahead of a cold front. The line of storms swept across Eastern Iowa during the late afternoon and early evening. Moderate instability and shear translated to a few storms producing large hail and damaging wind. Several reports of winds of 60 to 70 mph were received. The strong winds damaged a machine shed and tore a roof off a garage in Bankston in Dubuque County. In Louisa County, near Lake Odessa, strong winds blew the doors in on a garage and tore off part of the roof, and downed several large trees. The damage was attributed to a possible gustnado. Heavy rain also accompanied a few of the storms. One to two inches of rain fell in just over an hour in Cedar Rapids in Linn County. This produced 6 to 12 inches of



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					Killed	Injured	Property Crops	

### IOWA, East Central and Southeast

standing water on a few city streets.

#### **Linn County**

##### **Cedar Rapids**

<b>04</b>	<b>0615CST</b>	<b>0</b>	<b>0</b>	<b>20K</b>	<b>Lightning</b>
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Lightning struck a large pine tree at a residence on the 2400 block of C Avenue NE. The lightning traveled down the tree and into the home, blowing out the water meter and fuse box. Two-thirds of the 100 foot tree, estimated at more than 75 years old, landed on the roof. The home sustained some damage. Tiles were blown off the bathroom wall and the siding was scorched by the lightning. Some appliances also stopped working. One tree limb pierced a hole in and dented the hood of a neighbor's truck. Other branches broke windows in nearby homes. The homeowner was quoted as saying "It sounded like a bomb going off, the tree just literally exploded." No one was hurt.

#### **Jackson County**

##### **Bellevue**

<b>13</b>	<b>0530CST</b>	<b>0</b>	<b>0</b>	<b>Urban/Sml Stream Fld</b>
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#### **Jones County**

##### **Oxford Jct**

<b>13</b>	<b>0606CST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
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Scattered thunderstorms developed late Monday evening over Central Iowa from Marshalltown to Waterloo and Mason City. These storms moved across Northeast Iowa overnight into Tuesday morning. Heavy rain fell in Jackson County causing Spruce Creek to spill it's banks, forcing some residents to evacuate. The storms also produced 3/4 inch hail in Oxford Junction in Jones County.

#### **Lee County**

##### **Ft Madison**

<b>13</b>	<b>1150CST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
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#### **Washington County**

##### **Washington**

<b>13</b>	<b>1150CST</b>	<b>0</b>	<b>0</b>	<b>1K</b>	<b>Thunderstorm Wind</b>
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#### **Washington County**

##### **Washington**

<b>13</b>	<b>1154CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G53)</b>
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#### **Jefferson County**

##### **Libertyville**

<b>13</b>	<b>1327CST</b>	<b>0</b>	<b>0</b>	<b>5K</b>	<b>Thunderstorm Wind (G53)</b>
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#### **Lee County**

##### **Ft Madison**

<b>13</b>	<b>1425CST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
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#### **Louisa County**

##### **Columbus City**

<b>13</b>	<b>1433CST</b>	<b>0</b>	<b>0</b>	<b>1K</b>	<b>Thunderstorm Wind</b>
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#### **Muscatine County**

##### **Fruitland**

<b>13</b>	<b>1439CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G53)</b>
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#### **Louisa County**

##### **Fredonia**

<b>13</b>	<b>1445CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G53)</b>
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#### **Des Moines County**

##### **Burlington**

<b>13</b>	<b>1447CST</b>	<b>0</b>	<b>0</b>	<b>Hail (0.75)</b>
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#### **Muscatine County**

##### **Pleasant Prairie**

<b>13</b>	<b>1455CST</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (G53)</b>
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#### **Des Moines County**

##### **Burlington**

<b>13</b>	<b>1501CST</b>	<b>0</b>	<b>0</b>	<b>1K</b>	<b>Thunderstorm Wind</b>
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### IOWA, East Central and Southeast

Jones County									
Olin	13	1505CST			0	0	15K		Thunderstorm Wind
Cedar County									
Durant	13	1510CST			0	0			Funnel Cloud
Cedar County									
Durant	13	1510CST			0	0	5K		Thunderstorm Wind
Scott County									
New Liberty	13	1510CST			0	0			Funnel Cloud
Scott County									
Bettendorf	13	1518CST			0	0			Hail (1.00)
Scott County									
Davenport	13	1519CST			0	0			Hail (1.00)
Clinton County									
Countywide	13	1525CST			0	0	1K		Thunderstorm Wind
Scott County									
Davenport	13	1526CST			0	0			Flash Flood
Jackson County									
Countywide	13	1530CST			0	0	10K		Thunderstorm Wind
Jackson County									
Preston	13	1530CST			0	0	10K		Thunderstorm Wind
Scott County									
Bettendorf	13	1530CST			0	0			Hail (0.88)
Scott County									
Davenport	13	1536CST			0	0			Flash Flood

The earlier round of thunderstorms had weakened and shifted east of the area. New thunderstorm development occurred quickly by late morning west of Waterloo and Marshalltown. The storms developed along and east-west frontal zone. Sufficient destabilization had occurred allowing CAPES to exceed 3000 J/Kg over much of the area. Other severe storms erupted over Southeast Iowa, Northeast Missouri and West Central Illinois as a Mesoscale Convectively induced Vorticity Maxima, from earlier thunderstorms in the plains, tracked eastward. Several reports of 60 to 70 mph winds, large hail and funnel clouds were received. The heavy rain, falling on saturated ground, led to urban and small stream flooding in a few areas. Severe winds forced many residents in Preston in Jackson County to take shelter. Tree limbs were scattered about, small trees uprooted, the Little League trailer overturned, and windows were broken from two businesses. Power lines were also knocked down. Severe winds also produced substantial damage in Durant in Cedar County. Damage included downed tree limbs, and roofs torn off a business and garage north of Main Street. Winds estimated at near 70 mph also caused damage in Olin in Jones County. Trees and power lines were knocked down, and several small structures were toppled, including a chimney on a home. Damage to a roof, sun porch and decorative fence was also reported along Maple and Trilby Streets. The Olin Community Park was forced to close because of downed trees and other damage. Trees were also toppled over in portions of Jefferson, Des Moines and Louisa Counties

Iowa County									
Countywide	13	2050CST			0	0			Flash Flood
Van Buren County									
Douds	13	2115CST			0	0	1K		Thunderstorm Wind
Van Buren County									
Milton	13	2115CST			0	0	1K		Thunderstorm Wind



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### IOWA, East Central and Southeast

#### Johnson County

Countywide	13	2138CST			0	0	Flash Flood
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#### Lee County

Keokuk	13	2200CST			0	0	Thunderstorm Wind (G50) <sup>M</sup>
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#### Cedar County

Countywide	13	2208CST			0	0	Flash Flood
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The third and final round of thunderstorms swept across the area during the evening ahead of a cold front. The storms produced some wind damage and several reports of flooding. Trees were toppled over in portions of Van Buren County. A 58 mph wind gust was measured in Keokuk in Lee County, which produced no reports of damage. Heavy rains, totaling as much as 6 inches for the day, in some locations, aggravated swollen creeks and streams. Water was reported covering roads throughout Iowa County, with flooding along Old Mans Creek into Johnson County. In Johnson County, street flooding was reported on First Avenue in Coralville and in North Liberty. Creek flooding washed a bridge out 2 miles south of Sunbury in Cedar County. King Avenue south of Stanwood was closed due to high water, while street flooding was also observed in Tipton.

#### Lee County

Ft Madison	20	1704CST			0	0	Urban/Sml Stream Fld
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One to two inches of rain fell in Fort Madison in less than one hour. Several city streets were covered in water as storm sewers were unable to keep up with the heavy rain.

#### Buchanan County

2 E Independence	23	1145CST			0	0	25K Hail (1.75)
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#### Buchanan County

Countywide	23	1200CST			0	0	Urban/Sml Stream Fld
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#### Buchanan County

2 N Winthrop	23	1200CST			0	0	20K Tstm Wind/Hail
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#### Henry County

3 SW Mt Pleasant	23	1325CST			0	0	1K Thunderstorm Wind
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#### Jefferson County

Countywide	23	1930CST			0	0	Urban/Sml Stream Fld
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#### Henry County

2 S Salem	23	2315CST			1	0	Urban/Sml Stream Fld
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F24VE

Morning upper air analysis showed a low level thermal gradient from Eastern Minnesota through Eastern Iowa into Western Illinois. A southerly low level jet of 25 to 30 knots interacted with the boundary to trigger strong to severe thunderstorms over Chickasaw and Black Hawk Counties during the late morning. Thunderstorms continued to develop throughout the afternoon and evening over Eastern Iowa, producing a few reports of hail, wind damage and heavy rain. Hail up to golfball size fell 2 miles east of Independence, flattening a three and one half mile swath of corn. Pea size hail covered the ground 2 miles northwest of Lamont in Buchanan County. Strong winds and a large amount of pea size hail was responsible for destroying corn in a 2 to 3 mile area north of Winthrop in Buchanan County. Strong winds also downed several trees near Mount Pleasant in Henry County. One traffic fatality in Salem in Henry County was related to area flooding. A 24 year old female was killed when high water swept the pickup she was riding in off the road. The truck was westbound on 335th Street and attempted a low water crossing of Little Cedar Creek. The vehicle was swept away by high water due to recent heavy rain, and carried downstream a short distance before overturning, trapping the woman inside. Seven other occupants escaped without serious injury.



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					Killed	Injured	Property	Crops	

### IOWA, East Central and Southeast

<b>Scott County</b>									
<b>Davenport</b>	<b>24</b>	<b>0840CST</b>			<b>0</b>	<b>0</b>			<b>Urban/Sml Stream Fld</b>
<b>Muscatine County</b>									
<b>Countywide</b>	<b>24</b>	<b>1100CST</b>			<b>0</b>	<b>0</b>			<b>Urban/Sml Stream Fld</b>
<b>Lee County</b>									
<b>Donnellson</b>	<b>24</b>	<b>1345CST</b>			<b>0</b>	<b>0</b>	<b>10K</b>		<b>Thunderstorm Wind</b>
<b>Lee County</b>									
<b>5 S Ft Madison</b>	<b>24</b>	<b>1357CST</b>			<b>0</b>	<b>0</b>			<b>Funnel Cloud</b>
<b>Clinton County</b>									
<b>Clinton</b>	<b>24</b>	<b>1726CST</b>			<b>1</b>	<b>0</b>			<b>Urban/Sml Stream Fld</b>

A complex of thunderstorms developed over Central Iowa during the early morning and tracked across Southeast Iowa, Northeast Missouri and West Central Illinois. Heavy rain, falling on already saturated ground, led to urban and small stream flooding in a few areas. The thunderstorm complex left behind an outflow boundary, which served as the focus for additional thunderstorm development in the afternoon over Eastern Iowa, Northeast Missouri and West Central Illinois. Pre-existing cloud cover limited instability, and generally reduced the threat for severe weather. However, an isolated storm became severe over Donnellson in Lee County. The storm produced substantial wind damage. Central Lee's athletic complex sustained an estimated \$10,000 in damage as severe winds destroyed bleachers and a baseball diamond back stop. Fortunately, the complex was empty at the time. No additional damage was reported in the area. A funnel cloud was observed a bit later south of Fort Madison.

<b>Jefferson County</b>									
<b>Fairfield</b>	<b>25</b>	<b>2100CST</b>			<b>0</b>	<b>0</b>			<b>Urban/Sml Stream Fld</b>
Heavy rain of around two inches in less than one hour led to standing water on city streets, and on Highway 63 north of town.									
<b>Lee County</b>									
<b>3 E Houghton</b>	<b>25</b>	<b>2140CST</b>			<b>0</b>	<b>0</b>			<b>Urban/Sml Stream Fld</b>
Water covered portions of Highway 16, one half mile west of Highway 218.									

### MISSOURI, Northeast

<b>Clark County</b>									
<b>Anson</b>	<b>13</b>	<b>1400CST</b>			<b>0</b>	<b>0</b>	<b>2K</b>		<b>Thunderstorm Wind</b>
Strong winds damaged a metal roof on a building and downed several tree limbs.									